

Remarks

This REPLY is in response to the Office Action mailed March 4, 2009 and the Advisory Action mailed June 10, 2009.

I. Summary of Examiner's Rejections

Prior to the Office Action mailed March 4, 2009, Claims 1-70 were pending in the Application, of which Claims 2-4, 7-14, 16-18, 20-23, 25-27, 30-37, 39-41, 43-46, 48-50, 53-60, 62-64 and 66-69 had been previously withdrawn. In the Office Action, Claims 1, 5, 6, 15, 19, 24, 28, 29, 38, 42, 47, 51, 52, 61, 65 and 70 were objected to for various informalities; and were also rejected under 35 U.S.C. 103(a) as being unpatentable over Richards et al. (U.S. Patent Publication No. 2002/0147850, hereafter Richards) in view of Reisman (U.S. Patent Publication No. 2002/0129094), Glass ("Web services Building Blocks for Distributed Systems" Prentice Hall, 2002, pp 1-24), and Kikinis (U.S. Patent Publication No. 2002/0049833).

II. Summary of Applicant's Amendment

The present Reply amends Claims 1, 5, 6, 15, 19, 24, 28, 38, 42, 47, 51, 52, 61, and 65; cancels Claims 2-4, 7-14, 16-18, 20-23, 25-27, 30-37, 39-41, 43-46, 48-50, 53-60, 62-64 and 66-70; and adds new Claims 71-80, leaving for the Examiner's present consideration Claims 1, 5, 6, 15, 19, 24, 28, 29, 38, 42, 47, 51, 52, 61, 65 and 71-80.

III. Drawings

Subject to the approval of the Examiner, Applicant requests that Figure 1 of the drawings as originally filed be replaced with that enclosed herewith. Support for the proposed amendment is provided in Applicant's specification at Paragraph [0015]). Applicant respectfully submits that the proposed amendment correct informalities in the drawings, and that no new matter is being added.

IV. Objections to the Claims

In the Office Action mailed March 4, 2009, Claims 1, 5, 6, 15, 19, 24, 28, 29, 38, 42, 47, 51, 52, 61, 65 and 70 were objected to for various informalities. Accordingly, the claims have been

amended as shown above to address the informalities. Reconsideration thereof is respectfully requested.

V. Claim Rejections under 35 U.S.C. 103(a)

In the Office Action mailed March 4, 2009, Claims 1, 5, 6, 15, 19, 24, 28, 29, 38, 42, 47, 51, 52, 61, 65 and 70 were rejected under 35 U.S.C. 103(a) as being unpatentable over Richards (U.S. Patent Publication No. 2002/0147850) in view of Reisman (U.S. Patent Publication No. 2002/0129094), Glass ("Web services Building Blocks for Distributed Systems" Prentice Hall, 2002, pp 1-24), and Kikinis (U.S. Patent Publication No. 2002/0049833).

Claim 1

Claim 1 has been amended to recite:

1. *(Currently Amended) A system for providing access between an application at a mobile device, and a web service at a server, comprising:*
 - a server comprising a processor, database, provisioning service, store and forward manager, web service, and one or more interface plugins for use by different types of mobile devices;*
 - a mobile device comprising a memory, processor, and software application executing thereon, wherein the mobile device further comprises*
 - a runtime environment program, which displays software applications provisioned by the provisioning service, wherein the runtime environment program interacts with the server via an interface to receive the provisioned applications and asynchronously update application data between the mobile device and the database,*
 - a software application, which is provided by the provisioning service in a markup language and which is displayable on the mobile device by the runtime environment program,*
 - an application data store, residing in the memory of the mobile device, which is used to store*
 - the application data for use by the software application, and*
 - templates for use by the runtime environment program in displaying the software application and the application data therein, and*
 - wherein the application data at the mobile device is persisted locally with the database at the server when the connection between the mobile device and the server is available, including when the software application is either running or not running;*
 - wherein, while the software application executes on the mobile device, the runtime*

environment program sends messages to the server through its interface, in a lower level message transport format associated with that mobile device type, to retrieve, use, or update the application data; and
wherein the server receives the messages, through an interface plugin configured for that mobile device type, and
converts the messages received from the runtime environment program into messages that are independent of mobile device type for subsequent communication to the web service, and
provides responses accordingly, including using the store and forward manager to store the responses at the server until the connection between the mobile device and the server is available.

Richards discloses a method and system for knowledge and information sharing. Disclosed embodiments include a central electronic information network and a plurality of portable client devices for use by mobile personnel in the field. The electronic information network has a central database that contains data objects in the form of logic trees representing the cumulative knowledge and information regarding a plurality of situations that are expected to be encountered by the mobile personnel while in the field. (Abstract). Intermittently and preferably wirelessly, such as whenever a given client device connects to the central network for any reason, each client device synchronizes its logic tree data objects with those in the central database. (Abstract).

Reisman discloses a method for operating a user station that is configured for communications with a multiplicity of independently-operated data sources via a non-proprietary network includes steps for creating a send data object that includes user demographics, and automatically sending the send data object to a selected one of the data sources upon establishing the communication link, without any triggering user action. (Abstract).

Glass appears to provide a general introduction to the topic of web services, including the HTML and XML markup languages, the Service-Oriented Architecture Protocol (SOAP), and the use of a Web Services Description Language (WSDL) to describe a web service.

Kikinis discloses a system is provided for improving data transmission to computers and computerized appliances connected directly or indirectly to the Internet or other wide area data network. In this system software at a proxy server uses prestored characteristics of client devices to translate data from Internet sources into a reduced-content form adapted specifically to the client device. (Abstract).

In the Office Action, it was asserted that Richards teaches a memory; at least one

processor; an application data store, residing in the memory, to store application data, the application data being associated with an application; and a processor to run the application, the application containing presentation information, information for interpreting the stored application data, using the information in the application to produce a display including data from the stored application data, interacting with a server to update stored application data in the background when a connection between the mobile device and server is available. It was apparently acknowledged that Richards does not explicitly teach application data being persistent when the application is not running, executing a runtime environment program, information for constructing messageas to a server, realy interface and plug-in. However, it was asserted that Reisman teaches such a feature. It was further asserted that Kikinis teaches a runtime environment program that sends simplified messages to the server; and further teaches that the server receives, through the transport manager-relay interface plugin, and converts the simplified messages to messages of a first markup-language based messaging protocol for the service and converts messages of the first markup-language based messaging protocol from the service into simplified messages for the mobile device;wherein the protocol of the simplified messages is less complex than the first markup-language based messaging protocol.

Applicant respectfully submits that, based on the above description, although Richards appears to disclose a synchronization process for use between a client device and a central database, it appears that, in Richards, the synchronization process is intended to provide sharing of logic tree data object information between the client device and the central database server. As such, Richards does not appear to disclose a means of passing messages between the client and the server, or wherein the runtime environment program at the client sends messages to the server to retrieve, use, or update the application data; wherein the server receives the messages and converts the messages received, for subsequent communication to a web service, as recited by Claim 1, as currently amended.

Applicant further respectfully submits that, although Reisman appears to disclose that storage media used for hard disks and the like are often described as nonvolatile, and the type of storage is frequently referenced as "permanent", or "persistent storage," Reisman in this section appears to be referring to the storage of information on a hard disk or similar storage device. Claim 1 has been amended to more clearly recite that, in accordance with the embodiment therein, the

application data at the mobile device is persisted locally with the database at the server when the connection between the mobile device and the server is available.

Applicant further respectfully submits that, although Kikinis appears to disclose that a proxy server can be used to convert data for clients that perhaps cannot support the full range of data, this appears to describe a means of providing a reduced content to a device that might otherwise not be available to handle a complete content. Claim 1 has been amended to more clearly recite that, in accordance with the embodiment therein, the runtime environment program sends messages to the server, wherein the server converts the messages received from the runtime environment program into messages independent of mobile device type, for subsequent communication to a web service, and wherein the server provides responses accordingly, including using the store and forward manager to store the responses at the server until the connection between the mobile device and the server is available.

In view of the above comments, Applicant respectfully submits that Claim 1, as amended, is neither anticipated by, nor obvious in view of the cited references, when considered alone or in combination. Reconsideration thereof is respectfully requested.

Claims 24 and 47

The comments provided above with regard to Claim 1 are herein incorporated by reference. Claims 24 and 47 have been amended similarly to Claim 1 to more clearly recite the embodiments therein. Applicant respectfully submits that Claims 24 and 47, as amended, are likewise neither anticipated by, nor obvious in view of the cited references, when considered alone or in combination. Reconsideration thereof is respectfully requested.

Claims 5, 6, 15, 19, 28, 29, 38, 42, 51, 52, 61 and 65

Claims 5, 6, 15, 19, 28, 29, 38, 42, 51, 52, 61 and 65 depend from and include all of the features of Claims 1, 24 or 47. Applicant respectfully submits that these claims are allowable at least as depending from an allowable independent claim, and further in view of the amendments to the independent claims, and the comments provided above. Reconsideration thereof is respectfully requested.

VI. Additional Amendments

Claims 71-80 have been newly added by the present Reply. Subject to the approval of the Examiner, Applicant respectfully requests that new Claims 71-80 be included in the Application and considered therewith.

VII. Request for Interview

In the event the above remarks fail to place the case in condition for allowance, Applicant respectfully requests the opportunity to interview with the Examiner at his convenience, and prior to the issuance of a subsequent Office Action, to assist in expediting prosecution. The Examiner is invited to telephone the undersigned if he can assist in any way in expediting issuance of a patent.

VIII. Conclusion

In view of the above amendments and remarks, it is respectfully submitted that all of the claims now pending in the subject patent application should be allowable, and reconsideration thereof is respectfully requested. The Examiner is respectfully requested to telephone the undersigned if he can assist in any way in expediting issuance of a patent.

Enclosed herewith is a Petition for Extension of time, together with the appropriate fee, extending the time to respond up to and including September 4, 2009.

The Commissioner is authorized to charge any underpayment or credit any overpayment to Deposit Account No. 06-1325 for any matter in connection with this response, including any fee for extension of time, which may be required.

Respectfully submitted,

Date: September 4, 2009

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